

# PATENT ABSTRACTS OF JAPAN

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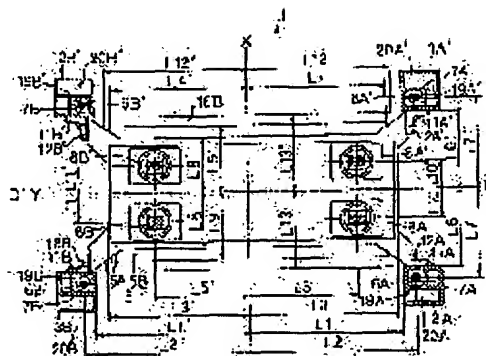
## (54) TRANSFER PRESS

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To uniformize an eccentric load at the time of press working by arranging the left and right connecting rods of a slide driving device, asymmetrically against the center position between the left and right columns, with a shift to the upstream side in the work transporting direction.

**SOLUTION:** The center position of the right and the left connecting rod is shifted to the upstream side U in the work transporting direction from the center position X between the left and right columns. Four point units 8A, 8A', 8B, 8B' are provided. The point units 8B, 8A (8B', 8A') are provided with a shift to the upstream side U in the work transporting direction, asymmetrically against the center position X between the left and right columns

3B, 3A (3B', 3A"). Assuming L3 is a distance from the center position X between the left and right columns to the right-end face of a slide frame 5A, and L3' is a distance from the center position X between the left and right columns to the left-end face of a slide frame 5A, the condition is  $L3 > L3'$ .



## LEGAL STATUS

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CLAIMS

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[Claim(s)]

[Claim 1] While being divided into crown, a column, and a bed, giving and binding a pulley load tight with a tie rod and a nut and constituting a frame Two sets which have a die-height adjustment and an overload safety device, or four sets of point units are prepared. The slide driving gear which installs a slide inside I crown in the transfer press moving up and down through the connecting rod connected with the slide driving gear installed inside crown It has the reducer style of a couple, and to the center position between right-and-left columns, asymmetrically, the center position of a longitudinal direction is shifted to the upstream of the work conveyance direction, and a left connecting rod and a right connecting rod are arranged in it.

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1] The transverse-plane block diagram of the press machine in the 1st example of this invention

[Drawing 2] The upper surface cross section of the important section in the 1st example of this invention

[Drawing 3] The upper surface cross section of the important section in the 2nd example of this invention

[Drawing 4] The upper surface cross section of the important section in the 3rd example of this invention

[Description of Notations]

In 1, a transfer press and 1A crown, 3A, and 3A' for a frame and 2 A right column, In 3B and 3B', a left column and 4 a slide and 5A for a bed and 5 The slide frame section, 5B right tie-rod, 6B, and 6B' for slide-plate section, 6A, and 6A' A left tie rod, A [ 7 ], B [ 7 ], \*\* nut, 8A, 8A', 8B, and 8B' A point unit, 9A a left connecting rod and 10 for a right connecting rod and 9B A slide driving gear, 11A, 11B, 11A', 11B', 12A and 12B, 12A', 12B' a right main gear and 13B for a guide and 13A A left main gear, 14A and 14B a right pinion and 15B for an EKISEN sheave and 15A A left pinion, In 16A, a outfield-between-the-right-and-the-center gear and 16B a drive gear and 18 for a left middle gear and 17 A bolster, A conveyance driving gear and 18B 18A The bolster-plate section, 19A, 19B, 19A' and 19B' -- a tie-rod room, 20A and 20B, 20A', and 20B' -- wiring / piping room and U -- the upstream of the work conveyance direction, and D -- the downstream of the work conveyance direction, and X -- the center position between right-and-left columns, and Y -- the center position between order columns -- it comes out

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[Translation done.]

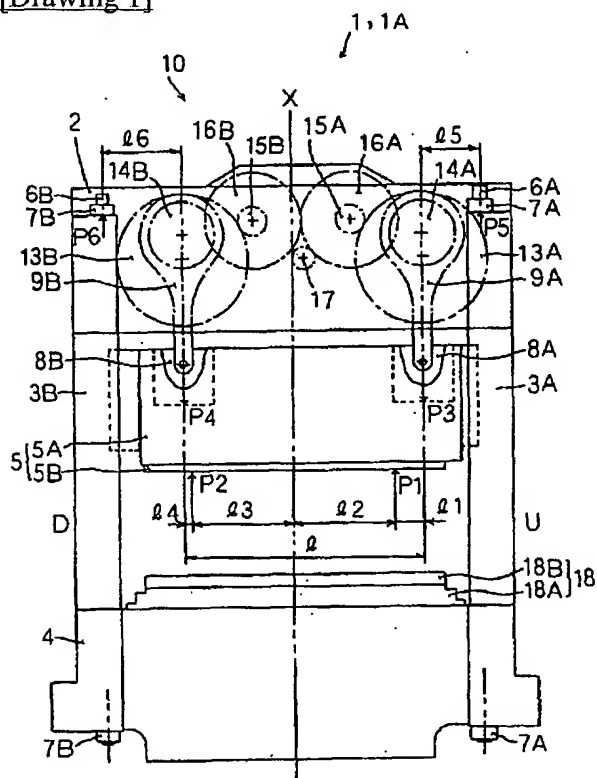
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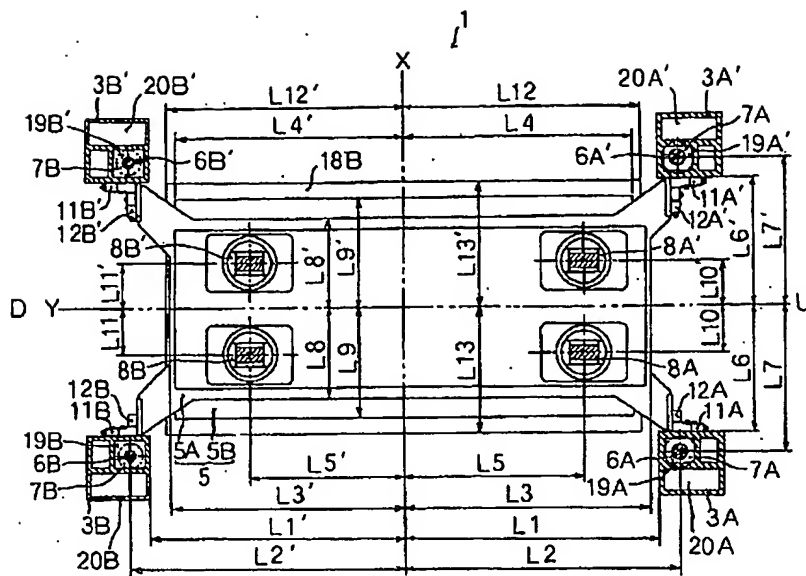
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## DRAWINGS

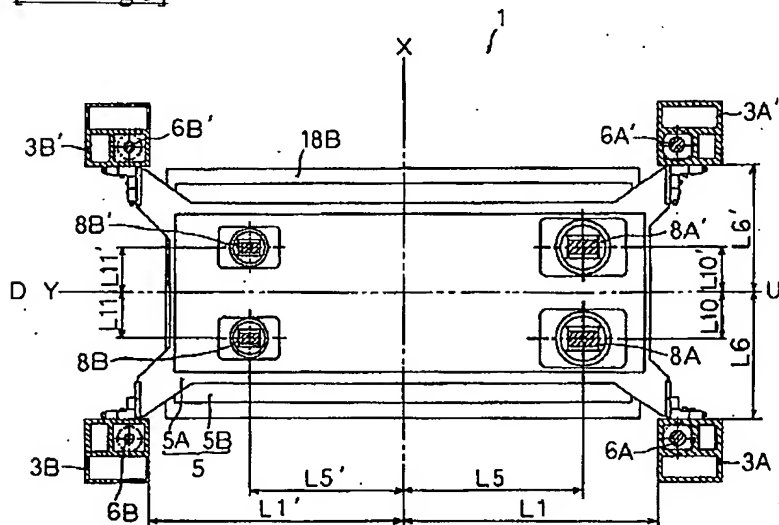
[Drawing 1]



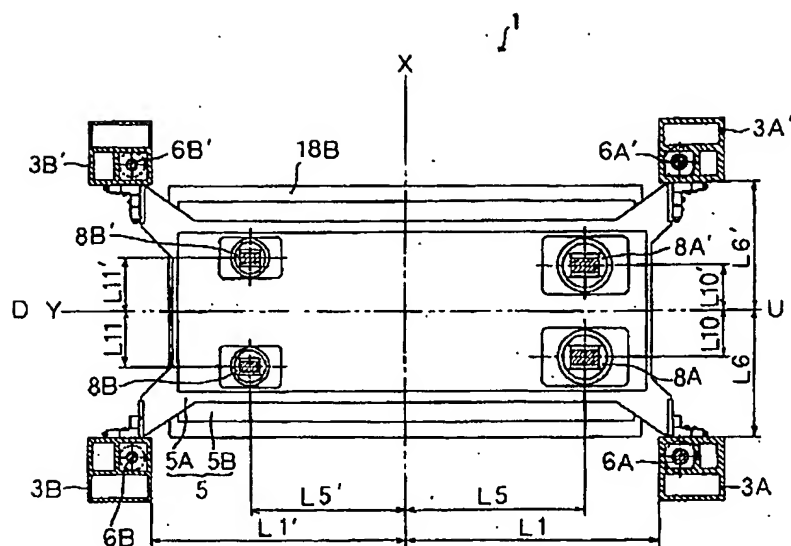
[Drawing 2]



[Drawing 3]



[Drawing 4]



[Translation done.]